

HAVASU CREEK BASIN

09404110 HAVASU CREEK AT SUPAI, AZ

**LOCATION**--Lat 36°13'37", long 112°41'15" (unsurveyed), in Coconino County, Hydrologic Unit 15010004, on the Havasupai Indian Reservation on the right bank, about 1.5 mi upstream from Supai.

**DRAINAGE AREA**--2,809 mi<sup>2</sup>, including 209 mi<sup>2</sup>, which are non-contributing.

**PERIOD OF RECORD**--Sept. 1995 to current year.

**GAGE**--Water-stage recorder. Elevation of gage is 3,240 ft above sea level from topographic map.

**REMARKS**--Records good except for estimated daily discharges and daily discharges greater than 100 ft<sup>3</sup>/s, which are poor. Several diversions and small impoundments upstream for irrigation and public supply.

**EXTREMES FOR PERIOD OF RECORD**--Maximum discharge, unknown, Aug. 10, 1997, gage height, 20.8 ft (estimated from highwater mark); minimum daily 56 ft<sup>3</sup>/s, Dec. 15, 1998.

**EXTREMES OUTSIDE PERIOD OF RECORD**--Jan. 2, 1910, maximum discharge unknown, flood wave reported as about 20 ft high through Supai Village. Sept. 3, 1990, 20,300 ft<sup>3</sup>/s, based on slope-area computation for site 12 mi downstream at the mouth. Flood wave through Supai Village reported as about 14 ft for this event; minimum discharge unknown.

**EXTREMES FOR CURRENT YEAR**--Maximum discharge, unknown, Feb. 13, gage height, 19.70 ft.; minimum daily discharge, 61 ft<sup>3</sup>/s on Oct. 26.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e64	e65	e66	95	70	78	65	68	70	69	68	66
2	65	e65	65	80	69	77	65	68	69	68	72	66
3	65	e65	65	69	69	77	65	68	68	68	e69	66
4	66	e65	67	71	69	74	66	68	67	68	e67	67
5	66	e65	67	70	70	70	66	68	67	68	e67	66
6	67	e65	67	69	70	72	66	69	67	68	e66	65
7	67	e65	66	69	70	72	66	69	66	68	e66	65
8	66	91	66	69	69	71	66	69	66	68	e67	65
9	67	e69	65	69	69	70	66	68	66	68	e66	66
10	68	e66	65	69	69	68	66	67	65	67	e99	66
11	68	e66	65	77	81	67	66	68	65	66	e78	66
12	67	e66	66	e796	94	67	66	68	65	67	e71	66
13	66	e66	65	e486	e398	66	66	66	65	67	e73	65
14	64	e66	65	e293	e848	67	e68	65	65	66	e71	65
15	63	e66	66	e137	e265	66	e67	64	65	66	e76	65
16	63	e66	64	e104	e167	66	e68	64	64	66	e67	65
17	64	e66	65	e78	e116	66	e67	65	65	66	e67	65
18	64	e66	64	e72	e204	65	e67	65	65	66	e67	66
19	64	e66	65	e71	e162	65	e67	64	65	66	e67	65
20	64	e66	66	e71	e397	65	e67	65	65	66	66	65
21	102	e89	67	e71	e383	65	e67	e66	65	69	66	65
22	80	e72	66	e72	e219	65	e66	e66	65	70	66	65
23	97	e68	66	e71	e149	65	66	e67	67	69	66	65
24	86	e68	66	e69	e158	65	68	e68	67	68	68	66
25	64	e67	66	e68	e158	65	68	e69	67	e96	67	66
26	61	e66	66	e96	110	65	68	e69	68	e86	66	65
27	63	66	66	e86	90	65	68	e70	67	e69	66	65
28	73	e66	67	e72	80	65	68	70	68	e68	66	66
29	70	e66	74	71	---	65	68	71	68	68	66	66
30	66	e66	69	70	---	65	68	70	69	67	66	65
31	e65	---	76	70	---	65	---	70	---	68	65	---
TOTAL	2135	2035	2059	3731	4773	2104	2001	2092	1991	2140	2138	1965
MEAN	68.9	67.8	66.4	120	170	67.9	66.7	67.5	66.4	69.0	69.0	65.5
MAX	102	91	76	796	848	78	68	71	70	96	99	67
MIN	61	65	64	68	69	65	65	64	64	66	65	65
AC-FT	4230	4040	4080	7400	9470	4170	3970	4150	3950	4240	4240	3900
CFSM	0.02	0.02	0.02	0.04	0.06	0.02	0.02	0.02	0.02	0.02	0.02	0.02

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1995 - 2005, BY WATER YEAR (WY)

	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	
MEAN	65.5	63.9	65.2	70.4	75.0	65.4	66.1	65.2	65.5	67.3	71.3	68.7
MAX	69.6	67.8	67.1	120	170	67.9	69.4	69.4	68.9	70.5	94.0	82.7
(WY)	2001	2005	1998	2005	2005	2003	1999	2000	1996	1998	2003	1998
MIN	59.7	60.7	63.4	63.3	62.3	63.3	63.0	61.6	62.4	63.6	63.3	64.0
(WY)	2000	2000	2000	1999	1998	2001	1996	1997	1997	2000	2002	2001

SUMMARY STATISTICS

	FOR 2004 CALENDAR YEAR	FOR 2005 WATER YEAR	WATER YEARS 1995 - 2005
ANNUAL TOTAL	24404	29164	
ANNUAL MEAN	66.7	79.9	67.4
HIGHEST ANNUAL MEAN			79.9
LOWEST ANNUAL MEAN			65.0
HIGHEST DAILY MEAN	132	Sep 21	848
LOWEST DAILY MEAN	61	Oct 26	61
ANNUAL SEVEN-DAY MINIMUM	63	May 30	64
ANNUAL RUNOFF (AC-FT)	48410	57850	48830
ANNUAL RUNOFF (CFSM)	0.024	0.028	0.024
10 PERCENT EXCEEDS	69	79	69
50 PERCENT EXCEEDS	66	67	65
90 PERCENT EXCEEDS	64	65	62

e Estimated